

FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE, U.S. DEPARTMENT OF COMMERCE (REV. 7-2005)		ATTORNEY'S DOCKET NUMBER 133697-0028	
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>10/583587</b>	
INTERNATIONAL APPLICATION NO. PCT/CN2003/001092	INTERNATIONAL FILING DATE December 19, 2003	PRIORITY DATE CLAIMED	
TITLE OF INVENTION <b>A METHOD FOR SEPARATING, EXTRACTING AND PURIFYING POLY-<math>\beta</math>-HYDROXYALKANOATES (PHAs) DIRECTLY FROM BACTERIAL FERMENTATION BROTH</b>			
APPLICANT(S) FOR DO/EO/US CHEN, Xuejun			
Applicant hereby submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:			
<p>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.</p> <p>4. <input type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))</p> <ul style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ul> <p>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))</p> <ul style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ul> <p>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ul> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p> <p>11. <input type="checkbox"/> A copy of the International Preliminary Examination Report (PCT/IPEA/409).</p> <p>12. <input checked="" type="checkbox"/> A copy of the International Search Report (PCT/ISA/210).</p>			
Items 13 to 23 below concern document(s) or information included:			
<p>13. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>14. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>15. <input checked="" type="checkbox"/> A <b>FIRST</b> preliminary amendment.</p> <p>16. <input type="checkbox"/> A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment.</p> <p>17. <input checked="" type="checkbox"/> A substitute specification.</p> <p>18. <input checked="" type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>19. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</p> <p>20. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</p> <p>21. <input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).</p> <p>22. <input checked="" type="checkbox"/> Express Mail Label No. <b>EV 790916619US</b></p>			

Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <b>10/583587</b>	INTERNATIONAL APPLICATION NO. PCT/CN2003/001092	ATTORNEY'S DOCKET NUMBER <b>133697-0028</b>
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## 23. Other items or information:

**English Translation of Amendments to Specification, Claims and Abstract Made Under PCT Article 34  
Information Concerning Elected Office Notified of Their Election (Form PCT/IB/332)  
International Preliminary Report on Patentability Together with Notification of Transmittal Thereof  
Copies of Prior Art References Cited in IDS**

The following fees have been submitted:				CALCULATIONS	PTO USE
24. <input checked="" type="checkbox"/> Basic national fee .....				\$ 300	\$ 300.00
25. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) .. . \$ 0 All other situations..... \$ 200				\$	\$ 200.00
26. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) .. . \$ 0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority..... \$ 100 International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB..... \$ 400 All other situations..... \$ 500				\$	\$ 400.00
<b>TOTAL OF 24, 25 and 26 =</b>				\$	\$ 900.00
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole)		RATE	
- 100 =	0 /50 =	0		x \$250.00	\$ 0.00
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).					
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	18 - 20 =	0	x	\$50.00	\$ 0.00
Independent claims	1 - 3 =	0	x	\$200.00	\$ 0.00
MULTIPLE DEPENDENT CLAIMS (if applicable)				<input type="checkbox"/>	\$ 360.00
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$	\$ 900.00
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.					
<b>SUBTOTAL =</b>					
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).					
<b>TOTAL NATIONAL FEE =</b>					
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +					
<b>TOTAL FEES ENCLOSED =</b>					
				Amount to be	\$
				Amount to be	\$

10/583587

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a.  A check in the amount of \$ \_\_\_\_\_ to cover the above fees is enclosed.

b.  Please charge my Deposit Account No. 12-2136 in the amount of \$ \$900.00 to cover the above fees. A duplicate copy of this sheet is enclosed.

c.  The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 12-2136. A duplicate copy of this sheet is enclosed.

d.  Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.**

SEND ALL CORRESPONDENCE TO:

  
SIGNATURE

Michael S. Gzybowski

NAME

32,816

REGISTRATION NUMBER

June 19, 2006

DATE

10/583587  
IAP12 Rec'd PCT/PTO 19 JUN 2006

ATTORNEY'S DOCKET NO.: 133697-0028

"EXPRESS MAIL" COVER LETTER  
U.S. PATENT APPLICATION

Date: June 19, 2006

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Re: APPLICANTS: Xuejun CHEN

TITLE OF INVENTION: A METHOD FOR SEPARATING, EXTRACTING AND  
PURIFYING POLY- $\beta$ -HYDROXYALKANOATES (PHAs)  
DIRECTLY FROM BACTERIAL FERMENTATION BROTH

Forwarded herewith is the above-identified application, consisting of the following:

Express Mail Cover Letter

Certificate of Mailing by "Express Mail"

Transmittal Letter to the U.S. Designated/Elected Office Concerning a Filing Under 35 U.S.C. 371 (2 pgs) - In Duplicate

PCT Publication of International Application No. PCT/CN2003/001092 Including Search Report (Publication No. PCTWO2005/059153 A1)

Translation of International Application No. PCT/CN2003/001092(Publication No. PCTWO2005/059153 A1) into English Including Abstract, Specification, and Claims (7 pgs)

English Translation of Amended Documents including Specification, Claims and Abstract Made Under PCT Article 34

Substitute Specification - Clean Copy (6 pgs)

Substitute Specification - Marked-Up Copy (7 pgs)

Preliminary Amendment (6 pgs)

PCT/USA National Declaration and Power of Attorney (2 pgs)

International Preliminary Report on Patentability, together with the Notification of Transmission  
(form PCT/IPEA/416 and form PCT/IPEA/409) in Chinese (4 pgs)

Information Concerning Elected Offices Notified of Their Election (Form PCT/IB/332) (1 pg)

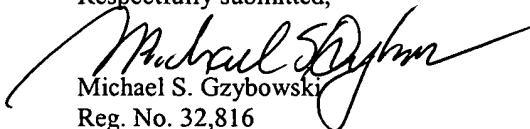
Assignment Recordation Cover with Assignment from the Inventors to TIANAN BIOLOGI MATERIAL CO., LTD, NINGBO

Information Disclosure Statement (with Form PTO-1449 and copies of 4 cited prior art references)

Fee Transmittal (1 pg)

Return Post Card

Respectfully submitted,



Michael S. Gzybowski  
Reg. No. 32,816

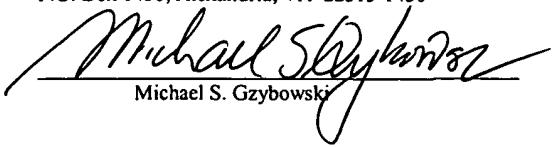
Attorney for Applicant

BUTZEL LONG  
350 South Main Street  
Suite 300  
Ann Arbor, MI 48104  
734-995-3110 (ph)

"EXPRESS MAIL" Mailing No. EV 790916619 US

Date of Deposit: June 19, 2006

I hereby certify that this paper is being deposited with  
The United States Postal Service "EXPRESS MAIL  
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37 CFR 1.10 on the date indicated above and is addressed  
to the Mail Stop PCT, Commissioner for Patents,  
P.O. Box 1450, Alexandria, VA 22313-1450



Michael S. Gzybowski

## CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)

Applicant(s): Xuejun CHEN

Docket No.  
**10/583587**  
133697-0028

Application No. Unknown	Filing Date June 19, 2006	Examiner Unknown	Customer No. 35684	Group Art Unit Unknown
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Invention: **A METHOD FOR SEPARATING, EXTRACTING AND PURIFYING POLY-β-HYDROXYALKANOATES (PHAs) DIRECTLY FROM BACTERIAL FERMENTATION BROTH**

I hereby certify that the following correspondence:

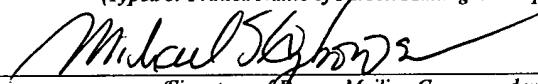
New National Phase Utility Patent Application Based on PCT/CN2003/001092 - See list of submitted documents below

(Identify type of correspondence)

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under  
Mail Stop PCT  
37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA  
22313-1450 on June 19, 2006  
(Date)

Michael S. Gzybowski

(Typed or Printed Name of Person Mailing Correspondence)



(Signature of Person Mailing Correspondence)

EV 790916619 US

("Express Mail" Mailing Label Number)

Note: Each paper must have its own certificate of mailing.

Express Mail Cover Letter; Transmittal Letter to the U.S. Designated/Elected Office Concerning a Filing Under 35 U.S.C. 371 (2 pgs) - In Duplicate; PCT Publication of International Application No. PCT/CN2003/001092 Including Search; English Translation of International Application No. PCT/CN2003/001092 Including Abstract, Specification, and Claims (7 pgs); English Translation of Amended Documents including Specification, Claims and Abstract Made Under PCT Article 34; Substitute Specification - Clean Copy (6 pgs); Substitute Specification - Marked-Up Copy (7 pgs); Preliminary Amendment (6 pgs); PCT/USA National Declaration and Power of Attorney (2 pgs); International Preliminary Report on Patentability, together with the Notification of Transmission; Information Concerning Elected Offices Notified of Their Election (Form PCT/IB/332) (1 pg); Assignment Recordation Cover with Assignment from the Inventors to TIANAN BIOLOGI MATERIAL CO., LTD, NINGBO; Information Disclosure Statement (with Form PTO-1449 and copies of 4 cited prior art references); Fee Transmittal (1 pg); and Return Post Card

10/583587

IAP12 Rec'd PCT/PTO 19 JUN 2006

Doc Code:

Approved for use through 07/31/2006. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

# FEE TRANSMITTAL for FY 2006

 Applicant claims small entity status. See 37 CFR 1.27TOTAL AMOUNT OF PAYMENT (\$)  
**\$940.00**

## Complete if Known

Application Number	Unknown
Filing Date	June 19, 2006
First Named Inventor	Xuejun CHEN
Examiner Name	Unknown
Art Unit	Unknown
Attorney Docket No.	133697-0028

## METHOD OF PAYMENT (check all that apply)

 Check     Credit Card     Money Order     None     Other (please identify): \_\_\_\_\_ Deposit    Deposit Account Number: 12-2136    Deposit Account Name: BUTZEL LONG

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below     Charge fee(s) indicated below, except for the filing fee

Charge any additional fee(s) or any underpayments of fee(s) under 37 CFR 1.16 and 1.17     Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

## FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.)

## 1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fees Paid (\$)
Utility	300	150	500	250	200	100	_____
Design	200	100	100	50	130	65	_____
Plant	200	100	300	150	160	80	_____
Reissue	300	150	500	250	600	300	_____
Provisional	200	100	0	0	0	0	_____

## 2. EXCESS CLAIM FEES

## Fee Description

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Fee (\$)	Fee Paid (\$)
- 20 or HP =	x	\$50.00	= \$0.00	_____	_____

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
- 3 or HP =	x	\$200.00	= \$0.00

HP = highest number of independent claims paid for, if greater than 3.

## 3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listing under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 =	0 / 50	0 (round up to a whole)	x \$250.00	= \$0.00

## 4. OTHER FEE(S)

Non-English specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Basic National Phase Filing Fee and Recordation Fee

\$940.00

## SUBMITTED BY

Signature		Registration No. (Attorney/Agent)	32,816	Telephone	734-995-3110
Name (Print/Type)	Michael S. Gzybowski		Date	June 19, 2006	

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.